



Technical description and Operating instructions

VOLTAGE DETECTOR Type VKP-10M



Manufacturer and service:

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TECHNICAL DATA

Type mark:	VKP-10M
Rated voltage range:	3-11 kV
Maximum voltage:	12 kV
Threshold voltage:	$1,1 \text{ kV} \leq U_k \leq 1,35 \text{ kV}$
Rated frequency:	50 Hz

Indoor and outdoor design, **Class L** (without contact tip extension)

Climate class:	N (-25 - +55Co)
Related standard:	MSZ EN 61243-1:2005
Supply voltage:	6 V (2x CR 2032)
Current drain during operation:	35 mA
Current drain during stand-by:	0 mA
Signals:	Light and sound
Display group:	III (indication of status „voltage ispresent” which has a stand-by status)

Process of voltage detection:

The voltage detector shows the presence of voltage on equipments with rated voltage 3-11 kV (three-phase system). The carrying case of the device contains 3 different contact tips. The straight tip can be used indoors and outdoors while the hook and fork type tips can be used only outdoors. The voltage detector is allowed to be used only with an operating rod appropriate for the verified voltage level.

Take the operating rod by the handle and contact the voltage detector with the equipment to be tested.

**THE CONTACT POINT MUST HAVE CLEAN METALLIC SURFACE!!
(free from paint or dirt)**

If rated voltage is present the red LED starts blinking rhythmically and an intermittent sound signal can be also heard.

Regulations:

The dead status shall be checked on every pole of the equipment, at the working site or nearby. This status of the equipment's disconnected parts shall be verified according to the local operational regulations.

Rated voltage (three-phase system) between 3 and 11 kV shall be checked with a single-pole voltage detector specified by **EN 61243-1**. On these voltage levels the indications of instruments built in the electric equipment are not enough to verify the uncharged status.



Operating instructions:

Testing of voltage detector:

The operable condition of the voltage detector is performed by pushing the button **TEST**. While being pushed the green and red LED's are alternately blinking and an intermittent sound signal can be heard. By releasing the button the green LED is on, and approx. 25 sec later it goes off and the detector switches to stand-by mode.

Before and after every use the operable condition of the voltage detector shall be tested by pushing the button **TEST**. When no sound or light signal is given by pushing the button **TEST** the batteries should be replaced. If the supply voltage drops under 4 V the red LED starts a fast blinking without sound signal. If following a battery replacement the device still fails to give any signal then it broke down. In this case it is **PROHIBITED** to use the voltage detector! If the red LED is on and the green LED is blinking fast, the electronics broke down. **IT IS FORBIDDEN TO USE THE VOLTAGE DETECTOR!**

Another way to test the device is to contact the tip of the detector with the point having a known voltage value (3-11 kV). If the red LED is blinking and an intermittent sound signal can be heard at the same time the voltage detector is ready to operate.

Replacement of battery (Fig.1):

1. screw off the contact tip
 2. screw off the plastic cover
 3. pull off the shielding cup
- replace the battery according to the polarity shown in the battery compartment

